

AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Currently Amended): A decision tree based data mining system for processing data; comprising:

a multiplicity of processors,

an object oriented pattern recognition algorithms module for pattern recognition, comprising:

a multiplicity of data files,

a decision tree system including

an object oriented module operatively connected to said processors and connected to said data files to read said data and partition said data files among said multiplicity of processors,

an object oriented module operatively connected to said processors to parallel sort said data using said multiplicity of processors, if sorting is necessary,

an object oriented module operatively connected to said processors to determine the best manner to split said data according to some criterion ~~The decision tree system of claim 1~~ wherein said criterion is the twoing rule, and

an object oriented module operatively connected to said processors to split said data, and

a data mining system, having  
a storage module, and  
an object oriented linking module for linking said decision tree system  
and said storage module.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Currently Amended): A decision tree based data mining system for  
processing data, comprising:

a multiplicity of processors,

an object oriented pattern recognition algorithms module for pattern  
recognition, comprising:

a multiplicity of data files,

a decision tree system including

a parallel object oriented module operatively connected to said processors  
and connected to said data files to read said data and partition said data files  
among said multiplicity of processors, said data containing data items with  
features,

a parallel object oriented module operatively connected to said processors  
to parallel sort said data using said multiplicity of processors, if sorting is  
necessary,

a parallel object oriented module operatively connected to said processors to determine the best manner to split said data into subsets according to some criterion ~~The decision tree system of claim 10~~ wherein said criterion is the twoing rule,

a parallel object oriented module operatively connected to said processors to split said data, and

a data mining system, having

a storage module to store the features for each data item,

a parallel object oriented linking module for linking said decision tree system and said storage module.

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Currently Amended): A decision tree based data mining method for processing data utilizing a multiplicity of processors, comprising the steps of: providing data files containing objects having relevant features, recognizing patterns among said objects based upon said relevant features,

creating a decision tree system,

using said multiplicity of processors for reading said data from said data files using an object oriented module,

using said multiplicity of processors for partitioning said data files among said multiplicity of processors,

using said multiplicity of processors for parallel sorting said data using an object oriented module and said multiplicity of processors if sorting is necessary,

determining the best manner to split said data into subsets according to some criterion using an object oriented module ~~The decision tree method of~~

~~claim 19~~ wherein said criterion is the twoing rule, and

splitting said data using an object oriented module.

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Currently Amended): A decision tree based data mining method for processing data utilizing a multiplicity of processors, comprising the steps of:

using said multiplicity of processor for reading and displaying data files, said data files containing objects having at least one feature,

partitioning said data files among said multiplicity of processors,

identifying said objects in said data files,

extracting at least one feature for each of said objects

recognizing patterns among said objects based upon said features, and

creating a decision tree, said decision tree including

using said multiplicity of processor for reading said data,

using said multiplicity of processor for parallel sorting said data using said multiplicity of processors, if sorting is necessary,

determining the best manner to split said data into subsets according to some criterion ~~The decision tree method of claim 28~~ wherein said criterion is the twoing rule, and

splitting said data.